

Lab 11

Come up with a new hypothesis based on a literature review and write a research proposal. The proposal should include:

- Introduction section
 - A 'hook' first paragraph that makes the reader want to continue
 - A good background on the subject that leads to the hypothesis
 - At least 5 references (more is strongly suggested)
- Proposed methods
 - Procedure
 - Use the methods section from one of your papers to help, but don't forget about your addition.
 - Power analysis to determine sample size needed
 - Need to determine the variability and mean difference based on literature
 - Hint: use the paper you used for the procedure above
 - Must cite article(s) that lead to your decisions

Using a mean difference of 5% and a standard deviation of 10% as found in (Awesome, 2020), an a priori power analysis was conducted to test the difference between two independent group means with an alpha of .05. Result showed that a total sample of 126 participants with two equal sized groups of $n = 63$ was required to achieve a power of .80.